Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 8000		
2002	2PKXL02.6UB1	2.601	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection			Loader and Tractor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			EXHAUST (g/kw-hr)				OPACITY (%)		
POWER CLASS	STANDARD		нс	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 <kw<75< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>9.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>20</td><td>15</td><td>50_</td></kw<75<>	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50_
31_1(41 473	1101 1	CERT		4.3				1	2	2

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of December 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Jummary Form

Manufacturer: Perkins Engines Company Ltd

Engine category: Nonroad CI

EPA Engine Family. 2PKX02.6UB1

U-R-022-0031

Mfr Family Name: AS EPA

Process Code: New Submission

7.Fuel Rate: 8.Fuel Rate: 9.Emission Control torque (lbs/hr)@peak torque Device Per SAE J1930	39.0 - 43.0 19.0 - 20.9 IDI		39.0 - 43.0 19.0 - 20.9 IDI	39.0 - 43.0 19.0 - 20.9 IDI	190 - 190 191	
×			:			
	117 @ 1600	:	1			
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	202-219	197-217	195.217	10.7 21.9	3.12 - 4.01	7.17 - 2.61
4,Fuel Rate: mm/stroke @ peak HP (for diesel only)	A1 R - AE	Ct - C.14	40.0 44.0	40.0	03.0 - 45.0	39.5 - 43.5
3.BHP@RPM (SAE Gross)	0000	55.U @ 2600	53.5 @ 2500	52.0 @ 2400	50.5 @ 2300	49.0 @ 2200
nine Code 2.Engine Model		1913/2600	1913/2500	1913/2400	1913/2300	1913/2200
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